19960927 004

Environmental Effects of Dredging Technical Notes

Contents (August 1996)

Section 01—Aquatic Disposal

EEDP-01-1	Biomagnification of Contaminants in Aquatic Food Webs as a Result of Open-Water Disposal of Dredged Material (June 1985)
EEDP-01-2	Fate of Dredged Material During Open-Water Disposal (September 1986)
EEDP-01-3	Engineering Considerations for Capping Subaqueous Dredged Material Deposits—Background and Preliminary Planning (February 1987)
EEDP-01-4	Engineering Considerations for Capping Subaqueous Dredged Material Deposits—Design Concepts and Placement Techniques (February 1987)
EEDP-01-5	Monitoring Dredged Material Consolidation and Settlement at Aquatic Disposal Sites (August 1989)
EEDP-01-6	Computerized Database for Interpretation of the Relationship Between Contaminant Tissue Residues and Biological Effects in Aquatic Organisms (March 1987)
EEDP-01-7	Use of <i>Daphnia Magna</i> to Predict Consequences of Bioaccumulation (March 1987)
EEDP-01-8	Simplified Approach for Evaluating Bioavailability of Neutral Organic Chemicals in Sediment (March 1987)
EEDP-01-9	A Procedure for Determining Cap Thickness for Capping Subaqueous Dredged Material Deposits (February 1988)
EEDP-01-10	Acoustic Tools and Techniques for Physical Monitoring of Aquatic Dredged Material Disposal Sites (February 1988)
EEDP-01-11	Contaminant Modeling (March 1988)
EEDP-01-12	Use of Seabed Drifters for Locating and Monitoring Dredged Material Placement Sites (March 1988)

DTIC QUALITY INSPECTED 2

For information on the Technical Notes, including additions to the distribution list, contact Dr. Robert M. Engler, Manager, Environmental Effects of Dredging Programs, (601) 634-3624.

Approved for public release.

Distribution Unlimited

EEDP-01-13	Relationship between PCB Tissue Residues and Reproductive Success of Fathead Minnows (April 1988)
EEDP-01-14	Influence of Environmental Variables on Bioaccumulation of Mercury (December 1988)
EEDP-01-15	Bioaccumulation of Chlorinated Contaminants and Concomitant Sublethal Effects in Marine Animals: An Assessment of the Current Literature (May 1989)
EEDP-01-16	Seasonal Restrictions of Dredging Operations in Freshwater Systems (May 1989)
EEDP-01-17	Factors Influencing Bioaccumulation of Sediment-Associated Contaminants by Aquatic Organisms; Factors Related to Contaminants (July 1989)
EEDP-01-18	Factors Influencing Bioaccumulation of Sediment-Associated Contaminants by Aquatic Organisms; Factors Related to Sediment and Water (July 1989)
EEDP-01-19	Factors Influencing Bioaccumulation of Sediment-Associated Contaminants by Aquatic Organisms; Factors Related to Biota (July 1989)
EEDP-01-20	Factors Influencing Bioaccumulation of Sediment-Associated Contaminants by Aquatic Organisms; Glossary and Bibliography (August 1989)
EEDP-01-21	Physical Monitoring of Nearshore Sand Berms (July 1989)
EEDP-01-22	Chronic Sublethal Sediment Bioassays for the Regulatory Evaluation of Marine and Estuarine Dredged Material: Proceedings of a Workshop (October 1990)
EEDP-01-23	Evaluation of Sediment Genotoxicity: Workshop Summary and Conclusions (October 1990)
EEDP-01-24	Literature Review for Residue-Effects Relationships with Hydrocarbon Contaminants in Marine Organisms (December 1990)
EEDP-01-25	Interim Results: The Relationship Between Sediment Organic Carbon and Biological Uptake of Contaminants (November 1991)
EEDP-01-26	Data Base for Polychlorinated Dioxins and Polychlorinated Furans (April 1992)
EEDP-01-27	A Computer-Assisted Expert System for Interpreting the Consequences Of Bioaccumulation In Aquatic Animals (COBIAA) (November 1992)
EEDP-01-28	Risk-based Testing of Dredged Material for Aquatic Disposal Evaluations (December 1992)

EEDP-01-29	Determining the Developmental Status of Sediment Toxicity Bioassays (December 1992)
EEDP-01-30	Environmental Effects Evaluation for Thalweg Disposal of Dredged Material (May 1993)
EEDP-01-31	Implementation Approach for Thalweg Disposal of Dredged Material (May 1993)
EEDP-01-32	Managing Dredged Material Via Thin-Layer Disposal in Coastal Marshes (July 1993)
EEDP-01-33	Trophic Transfer and Biomagnification Potential of Contaminants in Aquatic Ecosystems (January 1995)
EEDP-01-34	Naturally Occurring Levels of Ammonia and Sulfide in Pore Water: An Assessment of the Literature (May 1995)
EEDP-01-35	A Comparison of Three Lipid Extraction Methods (May 1995)
EEDP-01-36	Preliminary Protocol for Conducting 28-Day Chronic Sublethal Sediment Bioassays Using the Estuarine Amphipod <i>Leptocheirus</i> plumulosus (Shoemaker) (March 1996)
EEDP-01-37	Grain Size and Total Organic Carbon Effects on Benthic Organisms (March 1996)
EEDP-01-38	Lower Limits of Organic Carbon Normalization: Results of Fish/Sediment/Water Equilibrium Partitioning Studies (March 1996)
EEDP-01-39	Potential Application of Geosynthetic Fabric Containers for Open-Water Placement of Contaminated Dredged Material (March 1996)
EEDP-01-40	Assessment of the Genotoxic Potential of Dredged Material (August 1996)
EEDP-01-41	Proposed New Guidance for Interpreting the Consequences of Bioaccumulation from Dredged Material (August 1996)
Section 02—Upland Disposal	
EEDP-02-1	Plant Bioassay of Dredged Material (June 1985)
EEDP-02-2	Upland Animal Bioassays of Dredged Material (January 1986)
EEDP-02-3	Upland Disposal Site Management for Surface Runoff Water Quality (March 1987)
EEDP-02-4	Upland Animal Bioassays of Dredged Material (February 1988)
EEDP-02-5	Refinement and Simplification of Column Settling Tests for Design of Dredged Material Containment Areas (March 1988)

	10
EEDP-02-6	Heavy Metal Uptake by Agronomic Crops and Cyperus Esculentus Grown on Oxidized and Reduced Soils Contaminated with Metal Mining Wastes (August 1988)
EEDP-02-7	Synthesis of Leaching Research and Workshop Results (November 1988)
EEDP-02-8	Confined Disposal Guidance for Small Hydraulic Maintenance Dredging Projects—Design Procedures (December 1988)
EEDP-02-9	Role of Contaminant Uptake in the Potential Use of <i>Phragmites Australis</i> (Cav.) Trin. on Confined Disposal Facilities (December 1988)
EEDP-02-10	PCDDF89—Updated Computer Model to Evaluate Consolidation/Desiccation of Soft Soils (September 1989)
EEDP-02-11	Factors Affecting Leachate Quality (December 1989)
EEDP-02-12	PCB Volatilization from Dredged Material, Indiana Harbor, Indiana (September 1990)
EEDP-02-13	Factors Affecting the Behavior of Metals in Leachate (December 1990)
EEDP-02-14	Long-term Evaluation of Plants and Animals Colonizing Contaminated Estuarine Dredged Material Placed in an Upland Environment (September 1991)
EEDP-02-15	Technical Considerations for Application of Leach Tests to Sediments and Dredged Material (October 1991)
EEDP-02-16	Influence of Sediment Properties on Bioaccumulation Potential of PCBs: Field Studies at the Calumet Confined Disposal Facility (November 1991)
EEDP-02-17	Synopsis of Hamlet City Lake, North Carolina, and San Francisco Bay Area, California, Sediment Leaching Studies (February 1993)
EEDP-02-18	Determination of Total Organic Carbon in Estuarine Leachate Samples (May 1995)
EEDP-02-19	Natural Processes for Contaminant Treatment and Control at Dredged Material Confined Disposal Facilities (March 1996)
EEDP-02-20	Vertical Strip Drains to Increase Storage Capacity of Confined Dredged Material Disposal Facilities (March 1996)
	Section 03—Wetland/Estuarine Disposal
EEDP-03-1	Wetland Animal Bioassay of Saltwater Dredged Material (January 1986)
EEDP-03-2	Wetland Animal Bioassay/Biomonitoring (March 1987)

EEDP-03-3	Field Verification of the Estuarine Plant Bioassay Procedure (June 1987)
EEDP-03-4	The Wetland Evaluation Technique (WET): A Technique for Assessing Wetland Functions and Values (June 1988)
EEDP-03-5	Long-term Biological Studies in Bottomland Hardwood Wetlands, Cache River, Arkansas (June 1988)
EEDP-03-6	A Method for Calculating Chemical Loading Rates in Riverine Wetland Systems (May 1989)
EEDP-03-7	Long-term Evaluation of Plants and Animals Colonizing Contaminated Estuarine Dredged Material Placed in a Wetland Environment (September 1991)
•	Section 04—Regulatory
EEDP-04-1	Interim Guidance for Predicting Quality of Effluent Discharged from Confined Dredged Material Disposal Areas—General (June 1985)
EEDP-04-2	Interim Guidance for Predicting Quality of Effluent Discharged from Confined Dredged Material Disposal Areas—Test Procedures (June 1985)
EEDP-04-3	Interim Guidance for Predicting Quality of Effluent Discharged from Confined Dredged Material Disposal Areas—Data Analysis (June 1985)
EEDP-04-4	Interim Guidance for Predicting Quality of Effluent Discharged from Confined Dredged Material Disposal Areas—Application (June 1985)
EEDP-04-5	Interim Procedures for Estimating Mixing Zones for Effluent from Dredged Material Disposal Sites (Single-Point Discharge) (September 1987)
EEDP-04-6	Regulatory Identification of Hydrocarbon Contaminants in Dredged Material (March 1987)
EEDP-04-7	Routine and Atypical Wetland Determination According to CE Wetlands Delineation Manual (January 1988)
EEDP-04-8	Corps of Engineers' Procedures and Policies on Dredging and Dredged Material Disposal (The Federal Standard) (August 1988)
EEDP-04-9	General Guidelines for Monitoring Effluent Quality from Confined Dredged Material Disposal Areas (November 1988)
EEDP-04-10	Procedures for Examining the Relationship Between Sediment Geochemistry and Biological Impacts of Contaminants (December 1989)

EEDP-04-11	A Plant Bioassay for Assessing Plant Uptake of Heavy Metals from Contaminated Freshwater Dredged Material (December 1989)
EEDP-04-12	A Computerized Procedure for Predicting Plant Uptake of Heavy Metals from Contaminated Freshwater Dredged Material (March 1990)
EEDP-04-13	Environmental Interpretation and Evaluation of Hydrocarbon Contaminants in Dredged Material (August 1990)
EEDP-04-14	Residue Effects Data Base on the Relationship Between Dioxin and Biological Effects in Aquatic Animals (February 1992)
EEDP-04-15	New Technique for Sediment/Organism Equilibrium Partitioning Studies (December 1992)
EEDP-04-16	The K_{oc} of Nonpolar Organic Compounds in Sediment (December 1992)
EEDP-04-17	Critical Body Residue (CBR) Approach for Interpreting the Consequences of Bioaccumulation of Neutral Organic Contaminants (December 1992)
EEDP-04-18	Dioxin in Sediments: Application of Toxic Equivalents Based on International Toxicity Equivalency Factors to Regulation of Dredged Material (January 1993)
EEDP-04-19	The Use of Population Modeling to Interpret Chronic Sublethal Sediment Bioassays (August 1993)
EEDP-04-20	Initial Comparisons of Six Assays for the Assessment of Sediment Genotoxicity (January 1995)
EEDP-04-21	A Chronic Sublethal Sediment Bioassay with the Marine Polychaete Nereis (Neanthes) arenaceodentata (January 1995)
EEDP-04-22	Fluoranthene K_{DOC} in Sediment Pore Waters (July 1995)
EEDP-04-23	Guidelines for Statistical Treatment of Less Than Detection Limit Data in Dredged Sediment Evaluations (July 1995)
EEDP-04-24	Methods for the Assessment of the Genotoxic Effects of Environmental Contaminants; Subcellular Effects (July 1995)
EEDP-04-25	Methods for the Assessment of the Genotoxic Effects of Environmental Contaminants; Cellular and Organ/Organism Effects (July 1995)
EEDP-04-26	Methods for the Assessment of the Genotoxic Effects of Environmental Contaminants; Glossary and References (July 1995)

Section 05—Design/ConOps

	•
EEDP-05-01	Dredged Material-Filled Geotextile Containers (May 1995)
	Section 06—Management
EEDP-06-1	CE Sediment Collection and Analysis Methods (July 1987)
EEDP-06-2	Techniques for Reducing the Costs of Sediment Evaluation (February 1988)
EEDP-06-3	Engineer Manual Series on Dredging and Dredged Material Disposal (March 1988)
EEDP-06-4	Current District Dredged Material Dewatering Practices (April 1988)
EEDP-06-5	Economic Optimization of Confined Disposal Area Dimensions (May 1989)
EEDP-06-6	Dredged Material Containment Area Management Practices for Increasing Storage Capacity (July 1989)
EEDP-06-7	Economic Valuation of Wetlands (November 1989)
EEDP-06-8	Summary of Valuation Methods for Wetlands (October 1989)
EEDP-06-9	Predicting and Monitoring Dredge-Induced Dissolved Oxygen Reduction (November 1989)
EEDP-06-10	Corps of Engineers Initiative to Develop Long-Term Management Strategies for Navigation Dredging Projects: Overview and Framework (January 1990)
EEDP-06-11	Preliminary Guidelines and Conceptual Framework for Comprehensive Analysis of Migration Pathways (CAMP) of Contaminated Dredged Material (January 1990)
EEDP-06-12	The Automated Dredging and Disposal Alternatives Management System (ADDAMS) (January 1995)
EEDP-06-13	Documentation of the EFQUAL Module for ADDAMS: Comparison of Predicted Effluent Water Quality with Standards (November 1991)
EEDP-06-14	Evaluating Environmental Effects of Dredged Material Management Alternatives — A Technical Framework (February 1993)
EEDP-06-15	Risk Assessment: An Overview of the Process (December 1991)
EEDP-06-16	Long-Term Management Strategy (LTMS) National Forum: Corps of Engineers Summary and Findings (December 1991)

EEDP-06-17	Documentation of the DYECON Module for ADDAMS: Determining the Hydraulic Retention and Efficiency of Confined Disposal Facilities (December 1992)
EEDP-06-18	Documentation of the SETTLE Module for ADDAMS: Design of Confined Disposal Facilities for Solids Retention and Initial Storage (December 1992)
EEDP-06-19	Documentation of the RUNQUAL Module for ADDAMS: Comparison of Predicted Runoff Water Quality with Standards (January 1995)
	Section 07—Beneficial Uses
EEDP-07-1	Building, Developing, and Managing Dredged Material Islands for Bird Habitat (December 1986)
EEDP-07-2	Wetlands Created for Dredged Material Stabilization and Wildlife Habitat in Moderate to High Wave-Energy Environments (May 1988)
EEDP-07-3	Construction of a Submerged Gravel Bar Habitat Using Dredged Material (February 1988)
EEDP-07-4	Construction of a Shallow-Water Gravel Bar Habitat Using Dredged Material (March 1988)
EEDP-07-5	The Value of Gravel Disposal Mounds in River Side Channels for Freshwater Mussels (February 1989)
	Section 08—Miscellaneous
EEDP-08-1	The Value of Wing Dams for Freshwater Mussels (November 1988)
	Section 09—Equipment
EEDP-09-1	Guide to Selecting a Dredge for Minimizing Resuspension of Sediment (December 1986)
EEDP-09-2	Sediment Resuspension by Selected Dredges (March 1988)
EEDP-09-3	A Preliminary Evaluation of Contaminant Release at the Point of Dredging (April 1988)
EEDP-09-4	Equipment Mobility in Confined Dredged Material Disposal Areas; Field Evaluations (January 1989)
EEDP-09-5	Selecting Equipment for Use in Dredged Material Containment Areas (January 1990)
EEDP-09-6	Alternative Dredging Equipment and Operational Methods to Minimize Sea Turtle Mortalities (December 1990)